



information records in order from one or more queues. Section 2.2.4 describes the provision of data from information records to consumers, e.g., by de-queuing a message. This section also describes updating a history table which includes records for the consumers.

5. Section 3.4.1 of Exhibit A describes database fields that are employed to manage history information for the processing of messages, as well as procedures for proving to users and updating such information. Specific information to track for history records are also provided in this section. The fields used to manage the history information includes at least one field that indicates whether a data item has been provided to a consumer, which is updated when a consumer accesses the information (e.g., by updating the "consumer\_name" field with the name of the agent (recipient) that dequeued the message). This database structure was implemented in a software program that was created and reduced to practice prior to January 15, 1999 which embodied the subject matter of the above application.

6. Section 3.4.2 of Exhibit A describes an algorithm to update and manage index records relating to the messages and message recipients. This process was implemented in the software program that was created and reduced to practice prior to January 15, 1999 which embodied the subject matter of the above application.

7. The subject invention was reduced to practice and tested to verify that it works for its intended purpose prior to January 15, 1999. Exhibits B-F include copies of documents which evidence that the subject invention was tested and found to work for its intended purpose.

8. Exhibit B is a copy of a driver script which invokes the other SQL test scripts.

9. Exhibit C is a copy of a script that was used to create multiple consumers queues based on the subject invention.

10. Exhibit D are copies of scripts that perform operations such as enqueueing and dequeuing of messages, as well as cleanup of the queue tables.

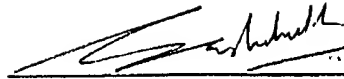
11. Exhibit E are copies of the outputs generated by the test scripts of Exhibits B-D.

12. Exhibit F are copies of documents showing successful tests of the above scripts. Regression tests were performed to verify that the operations performed by the test scripts generate the specified output. The documents in Exhibit F are copies of files that display the results of running the tests and demonstrate that the tests ran correctly with the expected results.

13. We further declare that all statements made herein of my own knowledge are true and all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Patent  
237/116  
OI7011472001

Date: Mar 14<sup>th</sup> 2006

  
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Sashikanth Chandrasekaran

Date: March 10, 2016

Ashok Saxena  
Ashok Saxena

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# Design Specification for AQ Propagation , RDBMS, 8.1

Project ID: aq\_propagation

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Status: Approved

Author: Sashi Chandrasekaran, Ashok Saxena

[REDACTED]  
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Version	Reviewers	Changes
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[REDACTED]  
[REDACTED]

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#### 2.2.4 History Management

History management for multi-consumer queues leaves a lot to be desired. There are two fundamental problems to history management: storage and reference counting.

- Storage

The history information is stored as a varray object collection. The current interface to varray collections retrieves and unpickles the entire collection. AQ uses C interfaces to navigate through the collection and update the history element for the appropriate consumer. The updated collection is written entirely into the database for history tracking.

- Reference Counting

In Oracle 8.0.4 a reference count is maintained as a separate column with each message. Dequeueers decrement the reference count and the last dequeuer (that finds the reference count to be zero) deletes the message from the queue table. Needless to say when several consumers are trying to dequeue the same messages a convoy will quickly form behind the reference count hotspot. We intend to eliminate the hot spot by de-coupling the reference counting from the dequeuers by entrusting the queue monitor with the task of performing the garbage collection (i.e delete messages that have been dequeued by all consumers). It already performs the task of deleting messages that have expired.

We propose to keep the history information in a separate IOT. This will reduce the contention among the multiple consumers to update the history and eliminate the need to lock the queue table entry for the message. The time manager index will be enhanced and the time manager's responsibilities will be increased to update the state of the message to "PROCESSED". If the queue has a non-infinite retention time, the time-manager will not update the state of the message to processed. Instead, the time-manager will only remove the message when the retention time is complete. This is not a problem because the state of the message can be deduced from the history entries in the history IOT. When a message is dequeued by a consumer, its entry in the message table is updated to the new removal time (current time + retention). When the time manager encounters this entry it will check the history and if all recipients have processed the message it will remove the message from the queue table and also the history rows. Since the history IOT is indexed on message id as the leading primary key the time manager can efficiently determine the status of a message.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

## 3.4 History Management

### 3.4.1 Data Structures

When a queue table is created, three additional IOTs are created to store the message meta data. The message data and message properties are kept in the queue table. The queue table in 8.1 will be modified for changes in message properties, but they are not relevant to the history management. The three additional IOTs are:

- A dequeue index to maintain the sort-order of messages for each recipient. This index will have the same structure as in Oracle 8.0.
- A history index that maintains the history of processing of every message. The columns in this IOT are as follows:

- a. msgid - unique identifier of the message
- b. rowid - location of the message in the queue table.
- c. address - address of the recipient.

It is the source queue name (without the schema name appended to it) if the consumer will dequeue messages directly from the source queue. The address supported by AQ propagation will be of the form [schema.]queue[@database link]. Messages are propagated to the destination queue specified by the address. AQ does not require global names be set to TRUE, however it is recommended. The database link name is resolved in the context of the owner of the source queue.

- d. protocol - protocol field of the recipient structure.

This field qualifies the address. It is the session-level protocol (e.g. dblink/TIB) used to propagate messages to the destination queue. It is 0 if the address is a database link address or if the consumer dequeues the message from the local queue.

- e. consumer\_name - name of the agent (recipient) that dequeued the message.
- f. txn\_id - transaction id of the dequeuing transaction.
- g. deq\_time - time of dequeue.
- h. deq\_user - database schema id of dequeuer.
- j. propagated\_msgid - message id of the enqueued message in the destination queue.

This is NULL if the address is NULL.

- k. retry\_count - # times message was dequeued in remove mode (and aborted).

Columns a, c, d and e form the primary key. We may choose to include the other columns also as part of the primary key to simplify access to these columns (Key columns are easier to extract than non-key columns and also do not have the complexity of an overflow segment). Key-compression will not be used since we do not expect the prefix (msgid) to be repeated often.

- A time-manager index that maintains the list of time-management activities. The time-manager index has four columns:

- a. time - absolute time at which time-manager has to perform an operation.



- b. msgid - message id of message that needs to be acted upon.
- c. action - a description of the action that needs to be performed. The possible values are:
  1. MAKE\_READY - make message available for dequeue to consumers after the delay time has passed.
  2. EXPIRE - move message to exception queue if message has not yet been processed.
  3. REMOVE - remove message after the retention time has passed.
- d. transaction\_id. This is the transaction\_id of the transaction that inserts the time-management entry. This is needed to generate a unique key, since two consumers can dequeue the same message and post the time-manager to perform an action at the same time. This is set if the action is REMOVE.

Columns a, b and d form the primary key. This IOT is similar to the time-manager index for Oracle 8.0 queue tables. The differences are:

- a. The IOT stores the msgid of the message rather than its rowid.
- b. There is an action column to help the time-manager determine what time-management activity needs to be performed on the message. In theory, this column is superfluous because the time-manager can deduce what action needs to be performed based on the history information in the history table. Oracle 8.0's time-manager index deduced what action needs to be performed based on the state of the message in the queue table.
- c. There could be multiple rows for the same message in the index. In fact, there could be up to one row for each agent that dequeues the message from the queue table. This is because each agent that dequeues messages independently notifies the time-manager without knowledge of the state of the message with respect to other recipients.

### 3.4.2 Design Description

We illustrate the use of these index structures using a simple example. Let us assume that a queue table, say qt, has been created. Call the dequeue sort order index qt\_i, the history index as qt\_h and the time-manager index as qt\_t. Let us say a message is enqueued in queue q with the following properties: messageid = m, delay = d, expiration = e, retention time = r, recipients = {r1, r2@boston} where r1 is a local consumer and boston is a remote database. The acknowledgment mode for this message is assumed to be ACK\_DEQUEUED (a propagator and dequeuer perform similar actions if the acknowledgment mode is ACK\_PROPAGATED or NO\_ACK).

When the message is enqueued at rowid = rid, the index structures are updated as follows:

1. insert one key into qt\_i for the propagator. This step is identical to Oracle 8.0. This step is necessary so that the propagator can dequeue the message without waiting for the delay time.
2. If d is non-NULL insert key into qt\_t with value [d, m, MAKE\_READY, txnid] else if e is non-NULL insert key into qt\_t with value [e, m, EXPIRE, txnid]
3. array insert two keys into qt\_h with values [m, rid, r2@boston, 0, r2, NULL, NULL, NULL, NULL, 0] and [m, rid, q, 0, r1, NULL, NULL, NULL, NULL, 0]. This step will substitute generating the history collection in an 8.0 queue table.

When the delay time has passed the time-manager performs the following actions.

1. for each entry in qt\_h where msgid = m and address = q and txn\_id = txnid insert key into qt\_i to enable consumer to dequeue message.
2. update the qt\_t key to [e, m, EXPIRE, cur\_txn\_id] if e is non-NULL.

Agent r1 performs the following steps after dequeuing message m.

1. Delete its index entry from qt\_i.

2. Update deq\_time, deq\_user, txn\_id columns in qt\_h for row with consumer\_name = r1.
3. If retention\_time is not NULL, insert key [r, m, REMOVE, cur\_txnid] into qt\_t else if queue has no retention, insert key [gettimeofday(), m, REMOVE, cur\_txnid].

The propagator updates the propagated\_msgid column in qt\_h and deletes the index entry from qt\_i as soon as m is successfully propagated to boston. The deq\_time column in qt\_h and time\_manager index qt\_t are updated only on receipt of acknowledgment from boston that r2 has processed the message.

The time-manager marks the message as expired at time e, if either r1's or r2's deq\_time columns in qt\_h is NULL. Likewise, it removes the message m at time r only if r1 and r2 deq\_time columns are non-NULL. In all cases the time-manager removes the index entry from the time-manager-index when it processes the entry, regardless of whether processing it resulted in any state change or not. When a message expires, the history keys in qt\_h are copied over to a different queue table if the exception queue resides in a different queue table. The history keys are deleted along with the message itself when the application uses dequeue-by-message-id to remove the message from the exception queue.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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[REDACTED]

[REDACTED]

[REDACTED]

```

# [REDACTED]
# [REDACTED]
# [REDACTED]
# tkaqnsbd.tsc
# [REDACTED]
# [REDACTED]
# NAME
#   tkaqnsbd.tsc - Advanced Queueing New-style Short Basic Dequeue test
# DESCRIPTION
#   short regression test of 8.1 style multiconsumer queues
# NOTES
#   tests creation, navigation, enqueue, dequeue
# [REDACTED]
# [REDACTED]
# RUNS_STANDALONE Yes
# TEST_TYPE       Short
# USES            SQL
# MAX_USERS       1
#
# open_cursors, shared_pool_size settings are temporary workarounds
rdbmsini 07_DICTIONARY_ACCESSIBILITY=true compatible=8.1.0 db_block_buffers=400
open_cursors=500 shared_pool_size=8000000

get tkaqnmin.sql
sql tkaqnmin > tkaqnsb1
compare tkaqnsb1 tkaqnmin mask

# Enqueue some messages and navigate thru the queues
get tkaqmnnav.sql
sql tkaqmnnav > tkaqnsb2
compare tkaqnsb2 tkaqmnnav mask

# Dequeue some messages when there is more than one message for an application
# First create the messages in the queue.
get tkaqmbdm.sql
sql tkaqmbdm > tkaqnsb3
compare tkaqnsb3 tkaqmbdm mask

get tkaqnsd1.sql
sql tkaqnsd1 > tkaqnsb4
compare tkaqnsb4 mask

# Cleanup
get tkaqmc1n.sql
sql tkaqmc1n > tkaqnsb5
compare tkaqnsb5 mask

shutdown

```

```

Rem [REDACTED]
Rem [REDACTED]
Rem [REDACTED]
Rem tkaqnmin.sql
Rem [REDACTED]
Rem [REDACTED]
Rem NAME
Rem     tkaqnmin.sql - <one-line expansion of the name>
Rem DESCRIPTION
Rem     <short description of component this file declares/defines>
Rem NOTES
Rem     <other useful comments, qualifications, etc.>
Rem [REDACTED]
Rem [REDACTED]
Rem [REDACTED]
Rem [REDACTED]
Rem [REDACTED]
Rem [REDACTED]
Rem [REDACTED]

```

```

set echo on
connect sys/knl_test7 as sysdba

```

```

Rem
Rem Create a queue user and administrator

```

```

grant connect,resource,aq_administrator_role to tkaqadm identified by tkaqadm;
grant connect,resource,aq_user_role to tkaquser identified by tkaquser;

```

```

grant execute on dbms_aq to tkaquser;
execute dbms_aqadm.grant_system_privilege('ENQUEUE_ANY','tkaquser',FALSE);
execute dbms_aqadm.grant_system_privilege('DEQUEUE_ANY','tkaquser',FALSE);
grant execute on dbms_aqadm to tkaquser;
execute dbms_aqadm.grant_system_privilege('MANAGE_ANY','tkaquser',TRUE);
grant execute on dbms_aq to tkaqadm;
execute dbms_aqadm.grant_system_privilege('ENQUEUE_ANY','tkaqadm',FALSE);
execute dbms_aqadm.grant_system_privilege('DEQUEUE_ANY','tkaqadm',FALSE);
execute dbms_aqadm.grant_type_access('tkaqadm');

```

```

Rem
Rem Create a type

```

```

create type message as object(id NUMBER, data VARCHAR2(30));

```

```

grant execute on message to tkaqadm;
grant execute on message to tkaquser;

```

```

Rem TODO: the remaining SQL scripts must be executed as tkaqadm
Rem connect tkaqadm/tkaqadm

```

```

# Create a queue with default sort ordering

```

```

execute dbms_aqadm.create_queue_table(queue_table => 'sys.tkaqqtdef',
queue_payload_type => 'message', multiple_consumers => true, comment => 'Creating
queue table with default sort ordering', compatible => '8.1.3');

```

[REDACTED]

```
# Create a queue with priority and enq_time as the sort order
```

```
execute dbms_aqadm.create_queue_table(queue_table => 'sys.tkaqqtpeqt',
queue_payload_type => 'message', sort_list => 'priority,enq_time', multiple_consumers
=> true, comment => 'Creating queue with priority and enq_time sort order',
compatible => '8.1.3');
```

```
# Create a queue with priority as the sort order
```

```
execute dbms_aqadm.create_queue_table(queue_table => 'sys.tkaqqtprpri',
queue_payload_type => 'message', sort_list => 'priority', multiple_consumers =>
true, comment => 'Creating queue with priority sort order', compatible => '8.1.3');
```

```
Rem    CHECK IF ALL'S OK
```

```
select schema, name, flags objno from system.aq$_queue_tables;
select orderbypos, colno, name, sort_order, table_objno from
system.aq$_queue_table_sort order by table_objno, orderbypos;
```

```
Rem Ensure that the tables and the indices have been created
```

```
select count(*) from tkaqqtdef;
select count(*) from aq$_tkaqqtdef_i;

select count(*) from tkaqqtpeqt;
select count(*) from aq$_tkaqqtpeqt_i;

select count(*) from tkaqqtprpri;
select count(*) from aq$_tkaqqtprpri_i;
```

```
Rem create two queues in each queue table
```

```
Rem create two queues in tkaqqtdef
```

```
execute dbms_aqadm.create_queue(queue_name => 'q1def', queue_table =>
'sys.tkaqqtdef', max_retries => 2, comment => 'queue 1 in tkaqqtdef');

execute dbms_aqadm.create_queue(queue_name => 'q2def', queue_table =>
'sys.tkaqqtdef', max_retries => 2, comment => 'queue 2 in tkaqqtdef');
```

```
Rem create two queues in tkaqqtpeqt
```

```
execute dbms_aqadm.create_queue(queue_name => 'q1peqt', queue_table =>
'sys.tkaqqtpeqt', max_retries => 2, comment => 'queue 1 in tkaqqtpeqt');

execute dbms_aqadm.create_queue(queue_name => 'q2peqt', queue_table =>
'sys.tkaqqtpeqt', max_retries => 2, comment => 'queue 2 in tkaqqtpeqt');
```

```
Rem create two queues in tkaqqtprpri
```

```
execute dbms_aqadm.create_queue(queue_name => 'q1pri', queue_table =>
'sys.tkaqqtprpri', max_retries => 2, comment => 'queue 1 in tkaqqtprpri');

execute dbms_aqadm.create_queue(queue_name => 'q2pri', queue_table =>
'sys.tkaqqtprpri', max_retries => 2, comment => 'queue 2 in tkaqqtprpri');
```

```
Rem create an exception queue in the tkaqqtdef table
```

```
execute dbms_aqadm.create_queue(queue_name => 'exceptionq', queue_table =>
'sys.tkaqqtdef', queue_type => DBMS_AQADM.EXCEPTION_QUEUE, comment => 'exception q
in tkaqqtdef');
```

Rem Create procedure to check the list of subscribers for each queue

CREATE OR REPLACE PROCEDURE TKAQ\_SUBSCRIBERS(qname VARCHAR2) AS

```
subs    dbms_aqadm.aq$_subscriber_list_t;
nsubs   BINARY_INTEGER;
i       BINARY_INTEGER;
```

begin

```
    subs := dbms_aqadm.queue_subscribers(qname);
```

```
    dbms_output.put_line(qname);
    dbms_output.put_line('-----');
```

```
    nsubs := subs.COUNT;
    FOR i IN 0..nsubs-1 LOOP
        IF subs(i) IS NOT NULL THEN
            dbms_output.put_line('--> ' || subs(i).name);
        END IF;
    END LOOP;
```

end TKAQ\_SUBSCRIBERS;

/

CREATE OR REPLACE PROCEDURE TKAQ\_HISTORY(enqmsgid RAW) AS

```
hist      sys.aq$_history;
nsubs     BINARY_INTEGER;
i         BINARY_INTEGER;
```

begin

```
    select history into hist
    from   tkagqtdf
    where  msgid = enqmsgid;
```

```
    dbms_output.put_line('-----');
```

```
    IF hist IS NOT NULL THEN
        nsubs := hist.COUNT;
        dbms_output.put_line(nsubs);
        FOR i IN 1..nsubs LOOP
            IF hist(i) IS NOT NULL THEN
                dbms_output.put_line('APP --> ' || hist(i).consumer);
                IF hist(i).transaction_id IS NOT NULL THEN
                    dbms_output.put_line('TXN --> ' || hist(i).transaction_id);
                    dbms_output.put_line('DEQ_USER --> ' || hist(i).deq_user);
                ELSE
                    dbms_output.put_line('TXN --> ');
                END IF;
            END IF;
        END LOOP;
    END IF;
    dbms_output.put_line('-----');
```

end TKAQ\_HISTORY;

/

Rem check subscribers for queues created

set serveroutput on

[REDACTED]

```
execute tkaq_subscribers('Q1DEF');
execute tkaq_subscribers('Q2DEF');
execute tkaq_subscribers('Q1PEQT');
execute tkaq_subscribers('Q2PEQT');
execute tkaq_subscribers('Q1PRI');
execute tkaq_subscribers('Q2PRI');
```

Rem add some default subscribers for each queue.

```
declare
appl_qldef sys.aq$_agent;
begin
appl_qldef := sys.aq$_agent('appl_qldef', NULL, NULL);
dbms_aqadm.add_subscriber('sys.qldef',appl_qldef);
end;
/
```

```
declare
appl_qldef sys.aq$_agent;
begin
appl_qldef := sys.aq$_agent('app2_qldef', NULL, NULL);
dbms_aqadm.add_subscriber('sys.qldef',appl_qldef);
end;
/
```

```
declare
appl_qldef sys.aq$_agent;
begin
appl_qldef := sys.aq$_agent('app3_qldef', NULL, NULL);
dbms_aqadm.add_subscriber('sys.qldef',appl_qldef);
end;
/
```

```
declare
appl_qldef sys.aq$_agent;
begin
appl_qldef := sys.aq$_agent('app4_qldef', NULL, NULL);
dbms_aqadm.add_subscriber('sys.qldef',appl_qldef);
end;
/
```

```
declare
appl_qldef sys.aq$_agent;
begin
appl_qldef := sys.aq$_agent('app5_qldef', NULL, NULL);
dbms_aqadm.add_subscriber('sys.qldef',appl_qldef);
end;
/
```

```
declare
appl_qldef sys.aq$_agent;
begin
appl_qldef := sys.aq$_agent('app6_qldef', NULL, NULL);
dbms_aqadm.add_subscriber('sys.qldef',appl_qldef);
end;
/
```

```
declare
appl_qldef sys.aq$_agent;
begin
appl_qldef := sys.aq$_agent('appl_q2def', NULL, NULL);
```

[REDACTED]

```
dbms_aqadm.add_subscriber('sys.q2def',app1_qldef);
end;
/
```

```
declare
app1_qldef sys.aq$_agent;
begin
app1_qldef := sys.aq$_agent('app2_q2def', NULL, NULL);
dbms_aqadm.add_subscriber('sys.q2def',app1_qldef);
end;
/
```

```
declare
app1_qldef sys.aq$_agent;
begin
app1_qldef := sys.aq$_agent('app1_qlpeqt', NULL, NULL);
dbms_aqadm.add_subscriber('sys.q1peqt',app1_qldef);
end;
/
```

```
declare
app1_qldef sys.aq$_agent;
begin
app1_qldef := sys.aq$_agent('app2_q1peqt', NULL, NULL);
dbms_aqadm.add_subscriber('sys.q1peqt',app1_qldef);
end;
/
```


```
declare
app1_qldef sys.aq$_agent;
begin
app1_qldef := sys.aq$_agent('app1_q2peqt', NULL, NULL);
dbms_aqadm.add_subscriber('sys.q2peqt',app1_qldef);
end;
/
```

```
declare
app1_qldef sys.aq$_agent;
begin
app1_qldef := sys.aq$_agent('app2_q2peqt', NULL, NULL);
dbms_aqadm.add_subscriber('sys.q2peqt',app1_qldef);
end;
/
```

```
declare
app1_qldef sys.aq$_agent;
begin
app1_qldef := sys.aq$_agent('app1_q1pri', NULL, NULL);
dbms_aqadm.add_subscriber('sys.q1pri',app1_qldef);
end;
/
```

```
declare
app1_qldef sys.aq$_agent;
begin
app1_qldef := sys.aq$_agent('app2_q1pri', NULL, NULL);
dbms_aqadm.add_subscriber('sys.q1pri',app1_qldef);
end;
/
```





```
declare
appl_qldef sys.aq$_agent;
begin
appl_qldef := sys.aq$_agent('app1_q2pri', NULL, NULL);
dbms_aqadm.add_subscriber('sys.q2pri',appl_qldef);
end;
/
```

```
declare
appl_qldef sys.aq$_agent;
begin
appl_qldef := sys.aq$_agent('app2_q2pri', NULL, NULL);
dbms_aqadm.add_subscriber('sys.q2pri',appl_qldef);
end;
/
```

Rem check subscribers for queues created

```
execute tkaq_subscribers('Q1DEF');
execute tkaq_subscribers('Q2DEF');
execute tkaq_subscribers('Q1PEQT');
execute tkaq_subscribers('Q2PEQT');
execute tkaq_subscribers('Q1PRI');
execute tkaq_subscribers('Q2PRI');
```

Rem start the queues

```
execute dbms_aqadm.start_queue(queue_name => 'sys.q1def');
execute dbms_aqadm.start_queue(queue_name => 'sys.q2def');
execute dbms_aqadm.start_queue(queue_name => 'sys.q1peqt');
execute dbms_aqadm.start_queue(queue_name => 'sys.q2peqt');
execute dbms_aqadm.start_queue(queue_name => 'sys.q1pri');
execute dbms_aqadm.start_queue(queue_name => 'sys.q2pri');
```



```

Rem
Rem $Header: tkaqmcln.sql 27-jul-97.13:41:57 nbhatt Exp $
Rem
Rem tkaqmcln.sql
Rem
Rem
Rem NAME
Rem     tkaqmcln.sql - <one-line expansion of the name>
Rem
Rem DESCRIPTION
Rem     <short description of component this file declares/defines>
Rem
Rem NOTES
Rem     <other useful comments, qualifications, etc.>
Rem
Rem
Rem
Rem
Rem
Rem
Rem

```

```

Rem TODO: The script must execute as tkaqadm
Rem connect tkaqadm/tkaqadm

```

```
set echo on
```

```
connect sys/knl_test7 as sysdba
```

```
Rem cleanup the queue tables
```

```

execute dbms_aqadm.drop_queue_table('sys.tkaqqtdef', TRUE);
execute dbms_aqadm.drop_queue_table('sys.tkaqqtpegt', TRUE);
execute dbms_aqadm.drop_queue_table('sys.tkaqqtprl', TRUE);

```

```

Rem connect as sys and drop the types
connect sys/knl_test7 as sysdba

```

```
drop type message;
```

```
Rem disable aq logins
```

```

drop user tkaquser cascade;
drop user tkaqadm cascade;

```



```

commit;

execute tkaq_navenq(13);
execute tkaq_navenq(14);
commit;

execute tkaq_navenq(15);
execute tkaq_navenq(16);
commit;

create or replace procedure tkaq_navdeq(consumer IN VARCHAR2) as
deq_userdata sys.message;
deq_msgid     raw(16);
deqopt        dbms_aq.dequeue_options_t;
msgprop       dbms_aq.message_properties_t;

begin

deqopt.wait := DBMS_AQ.NO_WAIT;
deqopt.consumer_name := consumer;
deqopt.navigation := DBMS_AQ.FIRST_MESSAGE;
deqopt.dequeue_mode := DBMS_AQ.BROWSE;

FOR i in 1..9 loop
    dbms_aq.dequeue('sys.q2pri', deqopt, msgprop, deq_userdata, deq_msgid);
    dbms_output.put_line('Message: ' || deq_userdata.id
                        || ':' || deq_userdata.data);
    commit;
    deqopt.navigation := DBMS_AQ.NEXT_MESSAGE;
END LOOP;

end;
/

execute tkaq_navdeq('app1_q2pri');
execute tkaq_navdeq('app2_q2pri');

create or replace procedure tkaq_navdeq(consumer IN VARCHAR2) as
deq_userdata sys.message;
deq_msgid     raw(16);
deqopt        dbms_aq.dequeue_options_t;
msgprop       dbms_aq.message_properties_t;

begin

deqopt.wait := DBMS_AQ.NO_WAIT;
deqopt.consumer_name := consumer;
deqopt.navigation := DBMS_AQ.FIRST_MESSAGE;

FOR i in 1..19 loop
    dbms_aq.dequeue('sys.q2pri', deqopt, msgprop, deq_userdata, deq_msgid);
    dbms_output.put_line('Message: ' || deq_userdata.id
                        || ':' || deq_userdata.data);
    commit;
    deqopt.navigation := DBMS_AQ.NEXT_MESSAGE;
END LOOP;

end;
/

execute tkaq_navdeq('app1_q2pri');
execute tkaq_navdeq('app2_q2pri');

```



```

[REDACTED]
dequeue_options.consumer_name := subscriber;
dequeue_options.navigation := DBMS_AQ.FIRST_MESSAGE;
dequeue_options.wait := 1;
dbms_aq.dequeue(queue_name=> 'sys.q2def',
                dequeue_options=>dequeue_options,
                message_properties=>message_properties,
                payload=>deq_userdata,
                msgid=>deq_msgid);

commit;


dbms_output.put_line('MESG-> ' || deq_userdata.id || ' ' || deq_userdata.data);

end;
/
```

Rem enqueue twelve messages each subscriber should get two.

```

execute tkaq_mbasicenq(1, 'First Message');
execute tkaq_mbasicenq(2, 'Second Message');
execute tkaq_mbasicenq(3, 'Third Message');
execute tkaq_mbasicenq(4, 'Fourth Message');
execute tkaq_mbasicenq(5, 'Fifth Message');
execute tkaq_mbasicenq(6, 'Sixth Message');
execute tkaq_mbasicenq(7, 'Seventh Message');
execute tkaq_mbasicenq(8, 'Eight Message');
execute tkaq_mbasicenq(9, 'Ninth Message');
execute tkaq_mbasicenq(10, 'Tenth Message');
execute tkaq_mbasicenq(11, 'Eleventh Message');
execute tkaq_mbasicenq(12, 'Twelveth Message');
execute tkaq_mbasicenq(13, 'Thirteenth Message');
execute tkaq_mbasicenq(14, 'Fourteenth Message');
execute tkaq_mbasicenq(15, 'Fifteenth Message');
execute tkaq_mbasicenq(16, 'Sixteenth Message');
execute tkaq_mbasicenq(17, 'Seventeenth Message');
execute tkaq_mbasicenq(18, 'Eighteenth Message');
execute tkaq_mbasicenq(19, 'Nineteenth Message');
execute tkaq_mbasicenq(20, 'Twentyth Message');
execute tkaq_mbasicenq(21, 'Twentyfirst Message');
execute tkaq_mbasicenq(22, 'Twenty2nd Message');
execute tkaq_mbasicenq(23, 'Twenty3rd Message');
```



```
execute tkaq_mbasicenq(24, 'Twenty4th Message');  
commit;
```



Echo

SVRMGR> connect sys/ksl\_test7 as sysdba

Connected.

SVRMGR>

SVRMGR>

SVRMGR> Rem

SVRMGR> Rem Create a queue user and administrator

SVRMGR>

SVRMGR>

SVRMGR> grant connect,resource,aq\_administrator\_role to tkaqadm identified by tkaqadm;

Statement processed.

SVRMGR>

SVRMGR> grant connect,resource,aq\_user\_role to tkaquser identified by tkaquser;

Statement processed.

SVRMGR>

SVRMGR> grant execute on dbms\_aq to tkaquser;

Statement processed.

SVRMGR> execute dbms\_aqadm.grant\_system\_privilege('ENQUEUE\_ANY','tkaquser',FALSE);

Statement processed.

SVRMGR> execute dbms\_aqadm.grant\_system\_privilege('DEQUEUE\_ANY','tkaquser',FALSE);

Statement processed.

SVRMGR> grant execute on dbms\_aqadm to tkaquser;

Statement processed.

SVRMGR> execute dbms\_aqadm.grant\_system\_privilege('MANAGE\_ANY','tkaquser',TRUE);

Statement processed.

SVRMGR> grant execute on dbms\_aq to tkaqadm;

Statement processed.

SVRMGR> execute dbms\_aqadm.grant\_system\_privilege('ENQUEUE\_ANY','tkaqadm',FALSE);

Statement processed.

SVRMGR> execute dbms\_aqadm.grant\_system\_privilege('DEQUEUE\_ANY','tkaqadm',FALSE);

Statement processed.

SVRMGR> execute dbms\_aqadm.grant\_type\_access('tkaqadm');

Statement processed.

SVRMGR>

SVRMGR> Rem

SVRMGR> Rem Create a type

SVRMGR>

SVRMGR> create type message as object(id NUMBER, data VARCHAR2(30));

Statement processed.

SVRMGR>

SVRMGR>

SVRMGR> grant execute on message to tkaqadm;

Statement processed.

SVRMGR> grant execute on message to tkaquser;

Statement processed.

SVRMGR>

SVRMGR> Rem TODO: the remaining SQL scripts must be executed as tkaqadm

SVRMGR> Rem connect tkaqadm/tkaqadm

SVRMGR>

SVRMGR> # Create a queue with default sort ordering

SVRMGR>

SVRMGR> execute dbms\_aqadm.create\_queue\_table(queue\_table => 'sys.tkaqqtdef',  
queue\_payload\_type => 'message', multiple\_consumers => true, comment => 'Creating  
queue table with default sort ordering', compatible => '8.1.3');

Statement processed.

SVRMGR>

SVRMGR> # Create a queue with priority and enq\_time as the sort order

SVRMGR>

SVRMGR> execute dbms\_aqadm.create\_queue\_table(queue\_table => 'sys.tkaqqtpeqt',  
queue\_payload\_type => 'message', sort\_list => 'priority,enq\_time', multiple\_consumers  
=> true, comment => 'Creating queue with priority and enq\_time sort order',  
compatible => '8.1.3');

Statement processed.

SVRMGR>

SVRMGR> # Create a queue with priority as the sort order

SVRMGR>

SVRMGR> execute dbms\_aqadm.create\_queue\_table(queue\_table => 'sys.tkaqqtpr',  
queue\_payload\_type => 'message', sort\_list => 'priority', multiple\_consumers =>  
true, comment => 'Creating queue with priority sort order', compatible => '8.1.3');  
Statement processed.

SVRMGR>

SVRMGR> Rem CHECK IF ALL'S OK

SVRMGR>

SVRMGR> select schema, name, flags objno from system.aq\$queue\_tables;

SCHEMA	NAME	OBJNO
SYSTEM	DEF\$_AQCALL	0
SYSTEM	DEF\$_AQERROR	0
SYS	TKAQQTDEF	9
SYS	TKAQQTPEQT	9
SYS	TKAQQTPRI	9

5 rows selected.

SVRMGR> select orderbypos, colno, name, sort\_order, table\_objno from  
system.aq\$queue\_table\_sort order by table\_objno, orderbypos;  
select orderbypos, colno, name, sort\_order, table\_objno from  
system.aq\$queue\_table\_sort order by table\_objno, orderbypos

ORA-00942: table or view does not exist

SVRMGR>

SVRMGR> Rem Ensure that the tables and the indices have been created

SVRMGR>

SVRMGR> select count(\*) from tkaqqtdef;  
COUNT(\*)

0  
1 row selected.

SVRMGR> select count(\*) from aq\$\_tkaqqtdef\_i;  
COUNT(\*)

0  
1 row selected.

SVRMGR>  
SVRMGR> select count(\*) from tkaqqtpeqt;  
COUNT(\*)

0  
1 row selected.  
SVRMGR> select count(\*) from aq\$\_tkaqqtpeqt\_i;  
COUNT(\*)

0  
1 row selected.  
SVRMGR>  
SVRMGR> select count(\*) from tkaqqtpr;  
COUNT(\*)

0  
1 row selected.  
SVRMGR> select count(\*) from aq\$\_tkaqqtpr\_i;  
COUNT(\*)

0  
1 row selected.

SVRMGR>

SVRMGR> Rem create two queues in each queue table

```

SVRMGR>
SVRMGR> Rem create two queues in tkaqqtdef
SVRMGR>
SVRMGR> execute dbms_aqadm.create_queue(queue_name => 'q1def', queue_table =>
'sys.tkaqqtdef', max_retries => 2, comment => 'queue 1 in tkaqqtdef');
Statement processed.
SVRMGR>
SVRMGR> execute dbms_aqadm.create_queue(queue_name => 'q2def', queue_table =>
'sys.tkaqqtdef', max_retries => 2, comment => 'queue 2 in tkaqqtdef');
Statement processed.
SVRMGR>
SVRMGR> Rem create two queues in tkaqqtpeqt
SVRMGR>
SVRMGR> execute dbms_aqadm.create_queue(queue_name => 'q1peqt', queue_table =>
'sys.tkaqqtpeqt', max_retries => 2, comment => 'queue 1 in tkaqqtpeqt');
Statement processed.
SVRMGR>
SVRMGR> execute dbms_aqadm.create_queue(queue_name => 'q2peqt', queue_table =>
'sys.tkaqqtpeqt', max_retries => 2, comment => 'queue 2 in tkaqqtpeqt');
Statement processed.
SVRMGR>
SVRMGR> Rem create two queues in tkaqqtprpri
SVRMGR>
SVRMGR> execute dbms_aqadm.create_queue(queue_name => 'q1prpri', queue_table =>
'sys.tkaqqtprpri', max_retries => 2, comment => 'queue 1 in tkaqqtprpri');
Statement processed.
SVRMGR>
SVRMGR> execute dbms_aqadm.create_queue(queue_name => 'q2prpri', queue_table =>
'sys.tkaqqtprpri', max_retries => 2, comment => 'queue 2 in tkaqqtprpri');
Statement processed.
SVRMGR>
SVRMGR> Rem create an exception queue in the tkaqqtdef table
SVRMGR>
SVRMGR> execute dbms_aqadm.create_queue(queue_name => 'exceptionq', queue_table =>
'sys.tkaqqtdef', queue_type => DBMS_AQADM.EXCEPTION_QUEUE, comment => 'exception q
in tkaqqtdef');
Statement processed.
SVRMGR>
SVRMGR> Rem Create procedure to check the list of subscribers for each queue
SVRMGR>
SVRMGR> CREATE OR REPLACE PROCEDURE TKAQ_SUBSCRIBERS(qname VARCHAR2) AS
2>
3> subs    dbms_aqadm.aq$_subscriber_list_t;
4> nsubs   BINARY_INTEGER;
5> i       BINARY_INTEGER;
6>
7> begin
8>
9>   subs := dbms_aqadm.queue_subscribers(qname);
10>
11>   dbms_output.put_line(qname);
12>   dbms_output.put_line('-----');
13>
14>   nsubs := subs.COUNT;
15>   FOR i IN 0..nsubs-1 LOOP
16>     IF subs(i) IS NOT NULL THEN
17>       dbms_output.put_line('--> ' || subs(i).name);
18>     END IF;
19>   END LOOP;
20>
21> end TKAQ_SUBSCRIBERS;
22> /
Statement processed.

```

```

SVRMGR>
SVRMGR> CREATE OR REPLACE PROCEDURE TKAQ_HISTORY(enqmsgid RAW) AS
2>
3> hist          sys.aq$_history;
4> nsubs         BINARY_INTEGER;
5> i             BINARY_INTEGER;
6>
7> begin
8>
9>   select history into hist
10>  from   tkaqqtdef
11>  where  msgid = enqmsgid;
12>
13>
14>   dbms_output.put_line('-----');
15>   IF hist IS NOT NULL THEN
16>     nsubs := hist.COUNT;
17>     dbms_output.put_line(nsubs);
18>     FOR i IN 1..nsubs LOOP
19>       IF hist(i) IS NOT NULL THEN
20>         dbms_output.put_line('APP --> ' || hist(i).consumer);
21>         IF hist(i).transaction_id IS NOT NULL THEN
22>           dbms_output.put_line('TXN --> ' || hist(i).transaction_id);
23>           dbms_output.put_line('DEQ_USER --> ' || hist(i).deq_user);
24>         ELSE
25>           dbms_output.put_line('TXN --> ');
26>         END IF;
27>       END IF;
28>     END LOOP;
29>   END IF;
30>   dbms_output.put_line('-----');
31>
32> end TKAQ_HISTORY;
33> /

```

MGR-00072: Warning: PROCEDURE TKAQ\_HISTORY created with compilation errors.

```

SVRMGR>
SVRMGR>
SVRMGR> Rem check subscribers for queues created
SVRMGR>
SVRMGR> set serveroutput on
Server Output          ON
SVRMGR>
SVRMGR> execute tkaq_subscribers('Q1DEF');
Statement processed.
Q1DEF
-----
SVRMGR> execute tkaq_subscribers('Q2DEF');
Statement processed.
Q2DEF
-----
SVRMGR> execute tkaq_subscribers('Q1PEQT');
Statement processed.
Q1PEQT
-----
SVRMGR> execute tkaq_subscribers('Q2PEQT');
Statement processed.
Q2PEQT
-----
SVRMGR> execute tkaq_subscribers('Q1PRI');
Statement processed.
Q1PRI
-----
SVRMGR> execute tkaq_subscribers('Q2PRI');

```

Statement processed.

Q2PRI

-----  
SVRMGR>

SVRMGR> Rem add some default subscribers for each queue.

SVRMGR>

SVRMGR> declare

2> appl\_qldef sys.aq\$\_agent;

3> begin

4> appl\_qldef := sys.aq\$\_agent('appl\_qldef', NULL, NULL);

5> dbms\_aqadm.add\_subscriber('sys.qldef', appl\_qldef);

6> end;

7> /

Statement processed.

SVRMGR>

SVRMGR> declare

2> appl\_qldef sys.aq\$\_agent;

3> begin

4> appl\_qldef := sys.aq\$\_agent('app2\_qldef', NULL, NULL);

5> dbms\_aqadm.add\_subscriber('sys.qldef', appl\_qldef);

6> end;

7> /

Statement processed.

SVRMGR>

SVRMGR> declare

2> appl\_qldef sys.aq\$\_agent;

3> begin

4> appl\_qldef := sys.aq\$\_agent('app3\_qldef', NULL, NULL);

5> dbms\_aqadm.add\_subscriber('sys.qldef', appl\_qldef);

6> end;

7> /

Statement processed.

SVRMGR>

SVRMGR> declare

2> appl\_qldef sys.aq\$\_agent;

3> begin

4> appl\_qldef := sys.aq\$\_agent('app4\_qldef', NULL, NULL);

5> dbms\_aqadm.add\_subscriber('sys.qldef', appl\_qldef);

6> end;

7> /

Statement processed.

SVRMGR>

SVRMGR> declare

2> appl\_qldef sys.aq\$\_agent;

3> begin

4> appl\_qldef := sys.aq\$\_agent('app5\_qldef', NULL, NULL);

5> dbms\_aqadm.add\_subscriber('sys.qldef', appl\_qldef);

6> end;

7> /

Statement processed.

SVRMGR>

SVRMGR> declare

2> appl\_qldef sys.aq\$\_agent;

3> begin

4> appl\_qldef := sys.aq\$\_agent('app6\_qldef', NULL, NULL);

5> dbms\_aqadm.add\_subscriber('sys.qldef', appl\_qldef);

6> end;

7> /

Statement processed.

SVRMGR>

SVRMGR>

SVRMGR> declare

2> appl\_qldef sys.aq\$\_agent;

[REDACTED]

```
3> begin
4> appl_qldef := sys.aq$_agent('appl_q2def', NULL, NULL);
5> dbms_aqadm.add_subscriber('sys.q2def',appl_qldef);
6> end;
7> /
```

Statement processed.

SVRMGR>

SVRMGR> declare

```
2> appl_qldef sys.aq$_agent;
3> begin
4> appl_qldef := sys.aq$_agent('app2_q2def', NULL, NULL);
5> dbms_aqadm.add_subscriber('sys.q2def',appl_qldef);
6> end;
7> /
```

Statement processed.

SVRMGR>

SVRMGR>

SVRMGR> declare

```
2> appl_qldef sys.aq$_agent;
3> begin
4> appl_qldef := sys.aq$_agent('appl_q1peqt', NULL, NULL);
5> dbms_aqadm.add_subscriber('sys.q1peqt',appl_qldef);
6> end;
7> /
```

Statement processed.

SVRMGR>

SVRMGR> declare

```
2> appl_qldef sys.aq$_agent;
3> begin
4> appl_qldef := sys.aq$_agent('app2_q1peqt', NULL, NULL);
5> dbms_aqadm.add_subscriber('sys.q1peqt',appl_qldef);
6> end;
7> /
```

Statement processed.

SVRMGR>

SVRMGR>

SVRMGR> declare

```
2> appl_qldef sys.aq$_agent;
3> begin
4> appl_qldef := sys.aq$_agent('appl_q2peqt', NULL, NULL);
5> dbms_aqadm.add_subscriber('sys.q2peqt',appl_qldef);
6> end;
7> /
```

Statement processed.

SVRMGR>

SVRMGR> declare

```
2> appl_qldef sys.aq$_agent;
3> begin
4> appl_qldef := sys.aq$_agent('app2_q2peqt', NULL, NULL);
5> dbms_aqadm.add_subscriber('sys.q2peqt',appl_qldef);
6> end;
7> /
```

Statement processed.

SVRMGR>

SVRMGR>

SVRMGR> declare

```
2> appl_qldef sys.aq$_agent;
3> begin
4> appl_qldef := sys.aq$_agent('appl_q1pri', NULL, NULL);
5> dbms_aqadm.add_subscriber('sys.q1pri',appl_qldef);
6> end;
7> /
```

Statement processed.

[REDACTED]

```
SVRMGR>
SVRMGR> declare
  2> appl_qldef sys.aq$_agent;
  3> begin
  4> appl_qldef := sys.aq$_agent('app2_q1pri', NULL, NULL);
  5> dbms_aqadm.add_subscriber('sys.q1pri',appl_qldef);
  6> end;
  7> /
```

Statement processed.

```
SVRMGR>
SVRMGR>
SVRMGR> declare
  2> appl_qldef sys.aq$_agent;
  3> begin
  4> appl_qldef := sys.aq$_agent('app1_q2pri', NULL, NULL);
  5> dbms_aqadm.add_subscriber('sys.q2pri',appl_qldef);
  6> end;
  7> /
```

Statement processed.

```
SVRMGR>
SVRMGR> declare
  2> appl_qldef sys.aq$_agent;
  3> begin
  4> appl_qldef := sys.aq$_agent('app2_q2pri', NULL, NULL);
  5> dbms_aqadm.add_subscriber('sys.q2pri',appl_qldef);
  6> end;
  7> /
```

Statement processed.

```
SVRMGR>
SVRMGR>
SVRMGR> Rem check subscribers for queues created
SVRMGR>
SVRMGR> execute tkaq_subscribers('Q1DEF');
Statement processed.
```

Q1DEF

```
-----
--> APP1_Q1DEF
--> APP2_Q1DEF
--> APP3_Q1DEF
--> APP4_Q1DEF
--> APP5_Q1DEF
--> APP6_Q1DEF
```

```
SVRMGR> execute tkaq_subscribers('Q2DEF');
Statement processed.
```

Q2DEF

```
-----
--> APP1_Q2DEF
--> APP2_Q2DEF
```

```
SVRMGR> execute tkaq_subscribers('Q1PEQT');
Statement processed.
```

Q1PEQT

```
-----
--> APP1_Q1PEQT
--> APP2_Q1PEQT
```

```
SVRMGR> execute tkaq_subscribers('Q2PEQT');
Statement processed.
```

Q2PEQT

```
-----
--> APP1_Q2PEQT
--> APP2_Q2PEQT
```

```
SVRMGR> execute tkaq_subscribers('Q1PRI');
Statement processed.
```

Q1PRI

-----  
--> APP1\_Q1PRI  
--> APP2\_Q1PRI  
SVRMGR> execute tkaq\_subscribers('Q2PRI');  
Statement processed.  
Q2PRI  
-----

--> APP1\_Q2PRI  
--> APP2\_Q2PRI  
SVRMGR>  
SVRMGR>  
SVRMGR> Rem start the queues  
SVRMGR> execute dbms\_aqadm.start\_queue(queue\_name => 'sys.q1def');  
Statement processed.  
SVRMGR> execute dbms\_aqadm.start\_queue(queue\_name => 'sys.q2def');  
Statement processed.  
SVRMGR> execute dbms\_aqadm.start\_queue(queue\_name => 'sys.q1peqt');  
Statement processed.  
SVRMGR> execute dbms\_aqadm.start\_queue(queue\_name => 'sys.q2peqt');  
Statement processed.  
SVRMGR> execute dbms\_aqadm.start\_queue(queue\_name => 'sys.q1pri');  
Statement processed.  
SVRMGR> execute dbms\_aqadm.start\_queue(queue\_name => 'sys.q2pri');  
Statement processed.  
SVRMGR>



[REDACTED]

```
Echo
SVRMGR> connect tkaquser/tkaquser
Connected.
SVRMGR> set serveroutput on
Server Output
SVRMGR>
SVRMGR> create or replace procedure tkaq_navenq(priority in number) as
  2> enq_userdata sys.message;
  3> enq_msgid raw(16);
  4> enqopt dbms_aq.enqueue_options_t;
  5> msgprop dbms_aq.message_properties_t;
  6>
  7> begin
  8>
  9> enq_userdata := sys.message(priority, 'HELLO, WORLD!');
 10> msgprop.priority := priority;
 11> dbms_aq.enqueue('sys.q2pri', enqopt, msgprop, enq_userdata, enq_msgid);
 12> end;
 13> /
Statement processed.
SVRMGR>
SVRMGR> execute tkaq_navenq(1);
Statement processed.
SVRMGR> execute tkaq_navenq(2);
Statement processed.
SVRMGR> commit;
Statement processed.
SVRMGR>
SVRMGR> execute tkaq_navenq(3);
Statement processed.
SVRMGR> execute tkaq_navenq(4);
Statement processed.
SVRMGR> commit;
Statement processed.
SVRMGR>
SVRMGR> execute tkaq_navenq(5);
Statement processed.
SVRMGR> execute tkaq_navenq(6);
Statement processed.
SVRMGR> commit;
Statement processed.
SVRMGR>
SVRMGR> execute tkaq_navenq(7);
Statement processed.
SVRMGR> execute tkaq_navenq(8);
Statement processed.
SVRMGR> commit;
Statement processed.
SVRMGR>
SVRMGR> execute tkaq_navenq(9);
Statement processed.
SVRMGR> execute tkaq_navenq(10);
Statement processed.
SVRMGR> commit;
Statement processed.
SVRMGR>
SVRMGR> execute tkaq_navenq(11);
Statement processed.
SVRMGR> execute tkaq_navenq(12);
Statement processed.
SVRMGR> commit;
Statement processed.
SVRMGR>
```

```

SVRMGR> execute tkaq_navenq(15);
Statement processed.
SVRMGR> execute tkaq_navenq(14);
Statement processed.
SVRMGR> commit;
Statement processed.
SVRMGR>
SVRMGR> execute tkaq_navenq(15);
Statement processed.
SVRMGR> execute tkaq_navenq(16);
Statement processed.
SVRMGR> commit;
Statement processed.
SVRMGR>
SVRMGR> create or replace procedure tkaq_navdeq(consumer IN VARCHAR2) as
  2> deq_userdata sys.message;
  3> deq_msgid    raw(16);
  4> deqopt       dbms_aq.dequeue_options_t;
  5> msgprop      dbms_aq.message_properties_t;
  6>
  7> begin
  8>
  9> deqopt.wait := DBMS_AQ.NO_WAIT;
 10> deqopt.consumer_name := consumer;
 11> deqopt.navigation := DBMS_AQ.FIRST_MESSAGE;
 12> deqopt.dequeue_mode := DBMS_AQ.BROWSE;
 13>
 14>   FOR i in 1..9 loop
 15>     dbms_aq.dequeue('sys.q2pri', deqopt, msgprop, deq_userdata, deq_msgid);
 16>     dbms_output.put_line('Message: ' || deq_userdata.id
 17>                          || ':' || deq_userdata.data);
 18>     commit;
 19>     deqopt.navigation := DBMS_AQ.NEXT_MESSAGE;
 20>   END LOOP;
 21>
 22> end;
 23> /

```

Statement processed.

```

SVRMGR>
SVRMGR> execute tkaq_navdeq('app1_q2pri');
Statement processed.

```

```

Message: 1:HELLO, WORLD!
Message: 2:HELLO, WORLD!
Message: 3:HELLO, WORLD!
Message: 4:HELLO, WORLD!
Message: 5:HELLO, WORLD!
Message: 6:HELLO, WORLD!
Message: 7:HELLO, WORLD!
Message: 8:HELLO, WORLD!
Message: 9:HELLO, WORLD!

```

```

SVRMGR> execute tkaq_navdeq('app2_q2pri');
Statement processed.

```

```

Message: 1:HELLO, WORLD!
Message: 2:HELLO, WORLD!
Message: 3:HELLO, WORLD!
Message: 4:HELLO, WORLD!
Message: 5:HELLO, WORLD!
Message: 6:HELLO, WORLD!
Message: 7:HELLO, WORLD!
Message: 8:HELLO, WORLD!
Message: 9:HELLO, WORLD!

```

```

SVRMGR>
SVRMGR> create or replace procedure tkaq_navdeq(consumer IN VARCHAR2) as

```

```

2> deq_userdata sys.message;
3> deq_msgid    raw(16);
4> deqopt       dbms_aq.dequeue_options_t;
5> msgprop      dbms_aq.message_properties_t;
6>
7> begin
8>
9> deqopt.wait := DBMS_AQ.NO_WAIT;
10> deqopt.consumer_name := consumer;
11> deqopt.navigation := DBMS_AQ.FIRST_MESSAGE;
12>
13>   FOR i in 1..19 loop
14>     dbms_aq.dequeue('sys.q2pri', deqopt, msgprop, deq_userdata, deq_msgid);
15>     dbms_output.put_line('Message: ' || deq_userdata.id
16>                          || ':' || deq_userdata.data);
17>     commit;
18>     deqopt.navigation := DBMS_AQ.NEXT_MESSAGE;
19>   END LOOP;
20>
21> end;
22> /

```

Statement processed.

SVRMGR>

SVRMGR> execute tkaq\_navdeq('app1\_q2pri');

ORA-25228: timeout in dequeue from SYS.Q2PRI while waiting for a message

ORA-06512: at "SYS.DBMS\_AQ", line .\*

ORA-06512: at "TKAQUSER.TKAQ\_NAVDEQ", line .\*

ORA-06512: at line .\*

Message: 1:HELLO, WORLD!

Message: 2:HELLO, WORLD!

Message: 3:HELLO, WORLD!

Message: 4:HELLO, WORLD!

Message: 5:HELLO, WORLD!

Message: 6:HELLO, WORLD!

Message: 7:HELLO, WORLD!

Message: 8:HELLO, WORLD!

Message: 9:HELLO, WORLD!

Message: 10:HELLO, WORLD!

Message: 11:HELLO, WORLD!

Message: 12:HELLO, WORLD!

Message: 13:HELLO, WORLD!

Message: 14:HELLO, WORLD!

Message: 15:HELLO, WORLD!

Message: 16:HELLO, WORLD!

SVRMGR> execute tkaq\_navdeq('app2\_q2pri');

ORA-25228: timeout in dequeue from SYS.Q2PRI while waiting for a message

ORA-06512: at "SYS.DBMS\_AQ", line .\*

ORA-06512: at "TKAQUSER.TKAQ\_NAVDEQ", line .\*

ORA-06512: at line .\*

Message: 1:HELLO, WORLD!

Message: 2:HELLO, WORLD!

Message: 3:HELLO, WORLD!

Message: 4:HELLO, WORLD!

Message: 5:HELLO, WORLD!

Message: 6:HELLO, WORLD!

Message: 7:HELLO, WORLD!

Message: 8:HELLO, WORLD!

Message: 9:HELLO, WORLD!


Message: 10:HELLO, WORLD!

Message: 11:HELLO, WORLD!

Message: 12:HELLO, WORLD!

Message: 13:HELLO, WORLD!

Message: 14:HELLO, WORLD!

  
Message: 15:HELLO, WORLD!  
Message: 16:HELLO, WORLD!  
SVRMGR>

Echo  
SVRMGR> connect sys/knl\_test7 as sysdba  
Connected.  
SVRMGR> set serveroutput on  
Server Output ON  
SVRMGR>  
SVRMGR>  
SVRMGR>  
SVRMGR>  
SVRMGR> CREATE OR REPLACE PROCEDURE TKAQ\_MBASICENQ(id IN NUMBER, text IN VARCHAR2)  
AS

```
2> msgprop      dbms_aq.message_properties_t;  
3> enqopt       dbms_aq.enqueue_options_t;  
4> enq_msgid    raw(16);  
5> enq_userdata message;  
6>  
7> begin  
8>  
9> enq_userdata := message(id, text);  
10> dbms_aq.enqueue(  
11>     queue_name => 'sys.q2def',  
12>     enqueue_options => enqopt,  
13>     message_properties => msgprop,  
14>     payload => enq_userdata,  
15>     msgid => enq_msgid);  
16>  
17> end;  
18> /
```

Statement processed.

SVRMGR>  
SVRMGR> CREATE OR REPLACE PROCEDURE TKAQ\_MBASICDEQ(subscriber IN VARCHAR2) AS

```
2>  
3> dequeue_options dbms_aq.dequeue_options_t;  
4> message_properties dbms_aq.message_properties_t;  
5> deq_userdata      sys.message;  
6> deq_msgid         raw(16);  
7> begin  
8> dequeue_options.consumer_name := subscriber;  
9> dequeue_options.navigation := DBMS_AQ.FIRST_MESSAGE;  
10> dequeue_options.wait := 1;  
11> dbms_aq.dequeue(queue_name=> 'sys.q2def',  
12>     dequeue_options=>dequeue_options,  
13>     message_properties=>message_properties,  
14>     payload=>deq_userdata,  
15>     msgid=>deq_msgid);  
16> commit;  
17>  
18> dbms_output.put_line('MESG-> ' || deq_userdata.id || ' ' ||  
deq_userdata.data);  
19>  
20> end;  
21> /
```

Statement processed.

SVRMGR>  
SVRMGR> Rem enqueue twelve messages each subscriber should get two.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(1, 'First Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(2, 'Second Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(3, 'Third Message');

[REDACTED]

Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(4, 'Fourth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(5, 'Fifth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(6, 'Sixth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(7, 'Seventh Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(8, 'Eight Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(9, 'Ninth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(10, 'Tenth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(11, 'Eleventh Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(12, 'Twelveth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(13, 'Thirteenth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(14, 'Fourteenth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(15, 'Fifteenth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(16, 'Sixteenth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(17, 'Seventeenth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(18, 'Eighteenth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(19, 'Nineteenth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(20, 'Twentyth Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(21, 'Twentyfirst Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(22, 'Twenty2nd Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(23, 'Twenty3rd Message');  
Statement processed.  
SVRMGR>  
SVRMGR> execute tkaq\_mbasicenq(24, 'Twenty4th Message');

Statement processed.  
SVRMGR> commit;  
Statement processed.  
SVRMGR>

[REDACTED]

```
Echo
SVRMGR> connect sys/knl_test7 as sysdba
Connected.
SVRMGR> set serveroutput on
Server Output
SVRMGR>
SVRMGR> Rem now do dequeues
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MSG-> 1 First Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 1 First Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MSG-> 2 Second Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 2 Second Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MSG-> 3 Third Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 3 Third Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MSG-> 4 Fourth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 4 Fourth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MSG-> 5 Fifth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 5 Fifth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MSG-> 6 Sixth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 6 Sixth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MSG-> 7 Seventh Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 7 Seventh Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MSG-> 8 Eighth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 8 Eighth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MSG-> 9 Ninth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 9 Ninth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
```



[REDACTED]

```
MESG-> 10 Tenth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MESG-> 10 Tenth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 11 Eleventh Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MESG-> 11 Eleventh Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 12 Twelveth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MESG-> 12 Twelveth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 13 Thirteenth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MESG-> 13 Thirteenth Message
SVRMGR> commit;
Statement processed.
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 14 Fourteenth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 15 Fifteenth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 16 Sixteenth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 17 Seventeenth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 18 Eighteenth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 19 Nineteenth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 20 Twentieth Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 21 Twentyfirst Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 22 Twenty2nd Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 23 Twenty3rd Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
Statement processed.
MESG-> 24 Twenty4th Message
SVRMGR> execute tkaq_mbasicdeq('app1_q2def');
ORA-25228: timeout in dequeue from SYS.Q2DEF while waiting for a message
ORA-06512: at "SYS.DBMS_AQ", line .*
ORA-06512: at "SYS.TKAQ_MBASICDEQ", line .*
ORA-06512: at line .*
SVRMGR> commit;
```

[REDACTED]

```
Statement processed.
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 14 Fourteenth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 15 Fifteenth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 16 Sixteenth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 17 Seventeenth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 18 Eighteenth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 19 Nineteenth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 20 Twentieth Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 21 Twentyfirst Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 22 Twenty2nd Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 23 Twenty3rd Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
Statement processed.
MSG-> 24 Twenty4th Message
SVRMGR> execute tkaq_mbasicdeq('app2_q2def');
ORA-25228: timeout in dequeue from SYS.Q2DEF while waiting for a message
ORA-06512: at "SYS.DBMS_AQ", line .*
ORA-06512: at "SYS.TKAQ_MBASICDEQ", line .*
ORA-06512: at line .*
SVRMGR> commit;
Statement processed.
```

Echo

ON

SVRMGR>

SVRMGR> connect sys/knl\_test7 as sysdba

Connected.

SVRMGR>

SVRMGR> Rem cleanup the queue tables

SVRMGR>

SVRMGR> execute dbms\_aqadm.drop\_queue\_table('sys.tkaqqtdef', TRUE);

Statement processed.

SVRMGR> execute dbms\_aqadm.drop\_queue\_table('sys.tkaqqtpeqt', TRUE);

Statement processed.

SVRMGR> execute dbms\_aqadm.drop\_queue\_table('sys.tkaqqtprl', TRUE);

Statement processed.

SVRMGR>

SVRMGR>

SVRMGR> Rem connect as sys and drop the types

SVRMGR> connect sys/knl\_test7 as sysdba

Connected.

SVRMGR>

SVRMGR> drop type message;

Statement processed.

SVRMGR>

SVRMGR>

SVRMGR> Rem disable aq logins

SVRMGR>

SVRMGR> drop user tkaquser cascade;


Statement processed.

SVRMGR> drop user tkaqadmn cascade;

Statement processed.

SVRMGR>

SVRMGR>

  
execute tkaq\_mbasicdeq('app1\_q2def');  
execute tkaq\_mbasicdeq('app1\_q2def');  
commit;  
execute tkaq\_mbasicdeq('app2\_q2def');  
execute tkaq\_mbasicdeq('app2\_q2def');  
execute tkaq\_mbasicdeq('app2\_q2def');  
execute tkaq\_mbasicdeq('app2\_q2def');  
execute tkaq\_mbasicdeq('app2\_q2def');  
execute tkaq\_mbasicdeq('app2\_q2def');  
execute tkaq\_mbasicdeq('app2\_q2def');  
execute tkaq\_mbasicdeq('app2\_q2def');  
execute tkaq\_mbasicdeq('app2\_q2def');  
execute tkaq\_mbasicdeq('app2\_q2def');  
execute tkaq\_mbasicdeq('app2\_q2def');  
commit;

Short regress has 0 dif - run with use\_ism=false.

tk0irddl.suc	tkagrawt.suc	tkoolqyi.suc	tkprddls.suc	tkqrords.suc
tk0iriot.suc	tkb2srg.suc	tkoommo2.suc	tkprdemo.suc	tkqrsech.suc
tk0irmts.suc	tkdrpls1.suc	tkoqbrqr.suc	tkprdepl.suc	tkqrsels.suc
tkaqbdq2.suc	tkgrsecs.suc	tkp83cl.suc	tkprdep2.suc	tkqrtres.suc
tkaqbeq1.suc	tkhodbck.suc	tkpasr81.suc	tkprdep3.suc	tkqrwheh.suc
tkaqbeq2.suc	tkhomrg.suc	tkpasrg0.suc	tkprdep4.suc	tkqxexsr.suc
tkaqdqb1.suc	tkhoucmr.suc	tkpbd1.suc	tkprdep5.suc	tkrcrash.suc
tkaqdqb2.suc	tkigfsrt.suc	tkpmsrl.suc	tkprdep6.suc	tkrcrsha.suc
tkaqdqba.suc	tkirenbs.suc	tkpmsrnl.suc	tkprexec.suc	tkrmlite.suc
tkaqdqrc.suc	tkirinds.suc	tkpopro.suc	tkprmisc.suc	tkrmliti.suc
tkaqmbdq.suc	tkoodcat.suc	tkpotta.suc	tkprsqlp.suc	tkrsrsubs.suc
tkaqmbei.suc	tkoodcta.suc	tkpqcāfs.suc	tkprttime.suc	tktrclus.suc
tkaqmnav.suc	tkoodctn.suc	tkpqdups.suc	tkprtimm.suc	tktrmmps.suc
tkaqnsb1.suc	tkoodtcl.suc	tkpqgrps.suc	tkpuori.suc	tktrnaos.suc
tkaqnsb2.suc	tkoodtci.suc	tkpqjois.suc	tkqrcats.suc	tktrtabs.suc
tkaqnsb3.suc	tkoodtcm.suc	tkpqmain.suc	tkqrdatas.suc	tktrvies.suc
tkaqnsb4.suc	tkoodtir.suc	tkpqords.suc	tkqrexps.suc	tkxabrch.suc
tkaqnsb5.suc	tkoodxu0.suc	tkpqgrgs.suc	tkqgrgps.suc	tkzrlso0.suc
tkaqoci2.suc	tkoolqyc.suc	tkpqwhrs.suc	tkqrjois.suc	
tkagrawi.suc	tkoolqyd.suc	tkprbugs.suc	tkqrnuls.suc	

Long regress will not be started as we need machines for other tests.

Transaction: ntang\_bug-733938

Transaction: ykunitom\_bug-704908\_1

kpodp.c@@/main/3  
 Bug 704908  
 kdbl.c@@/main/115  
 Bug 704908  
 kdbl.h@@/main/26  
 k1a.c@@/main/3  
 Bug 704908  
 klc.c@@/main/102  
 klccli.c@@/main/16  
 opiul.c@@/main/35

Transaction: pong\_bug-713950\_1

ksdx0.h@@/main/4  
 [REDACTED]

ksdx.c@@/main/22  
 [REDACTED]

Transaction: weiwang\_bug-718209

kkdl.c@@/main/378  
 [REDACTED]

Merge From /vobs/rdbms/src/server/dict/dictlkup/kkdl.c@@/main/377

kkfi.c@@/main/18  
 [REDACTED]

Merge From /vobs/rdbms/src/server/optim/cbo/kkfi.c@@/main/17

kda.c@@/main/117  
 [REDACTED]

kau.c@@/main/97  
 [REDACTED]

qerlt.c@@/main/41  
 [REDACTED]

qkdrv.c@@/main/224  
 [REDACTED]

Merge From /vobs/rdbms/src/server/sqllexec/rwsalloc/qkdrv.c@@/main/223

klcbs.h@@/main/47  
 [REDACTED]

check for disabled flag

klc.c@@/main/101  
 [REDACTED]

Transaction: ato\_make\_user\_queue\_table\_views

catqueue.sql@@/main/34  
 [REDACTED]

create all\_queue\_tables views

Makefile@@/main/9  
 [REDACTED]

add prvtaqin.sql

prvtaqin.sql@@/main/3  
 [REDACTED]

add java interface

Transaction: smuralid\_bug-718348

ttccap.c@@/main/4  
 [REDACTED]

ttccapSnd: don't send if null caps

koka.c@@/main/38  
 [REDACTED]

Merge From /vobs/rdbms/src/server/objsupp/objdata/koka.c@@/main/37

kpo.h@@/main/21  
 [REDACTED]

make kpoRTcaps an SGA variable

opidrv.c@@/main/81  
 [REDACTED]

opidrv, opisb: set hstmrtpcap to null if SGA's not initialized

opiino.c@@/main/35  
 [REDACTED]

opiino: set hstmrtpcap to kpoRTcaps after mapping in SGA

opirip.c@@/main/30  
 [REDACTED]

Merge From /vobs/rdbms/src/server/progint/opi/opirip.c@@/main/29

opitsk.c@@/main/67  
 [REDACTED]

Merge From /vobs/rdbms/src/server/progint/opi/opitsk.c@@/main/66

Transaction: rshaikh\_fix\_downgrade

c0801030.sql@@/main/10  
 [REDACTED]

drop type rowset

d0800050.sql@@/main/34  
 [REDACTED]

[REDACTED] dont drop ustats  
d0801030.sql@@/main/7  
[REDACTED]: fix

Transaction: najain\_658136-1

uacdef.h@@/main/20  
[REDACTED] remove UACFNLMX  
kxs.c@@/main/151  
[REDACTED] remove UACFNLBV  
kks.c@@/main/316  
[REDACTED] remove UACFNLBV  
opix.c@@/main/82  
[REDACTED] remove UACFNLBV

Transaction: thchang\_templob\_rdwr

kokl.c@@/main/64  
[REDACTED] Merge From /vobs/rdbms/src/server/objsupp/objdata/kokl.c@@/main/63  
kokl3.c@@/main/21  
[REDACTED] templob

Transaction: ramkrish\_bug-685852\_2

opitsk.c@@/main/68  
[REDACTED] opitsk: bug 685852 - BFILE check

Transaction: lkaplan\_row\_cln\_err

AllA.java@@/main/9  
[REDACTED]  
RefGrp.java@@/main/5  
[REDACTED]  
RepAPI.java@@/main/9  
[REDACTED]

Transaction: sichandr\_bug-729312

kkt.c@@/main/108  
[REDACTED] #729312 : fix error message for DATABASE triggers

Transaction: awitkows\_bug-732881

vop.c@@/main/135  
[REDACTED] complex view & correlated var

Transaction: najain\_bug-730182

kql.c@@/main/240  
[REDACTED] fix 730182

Transaction: heneman\_lrg27341

[REDACTED]

kmc.c@@/main/100

LRG 27341: correct order of interruptable test

Transaction: ntang\_bug-737564

k2g.c@@/main/52

b

Out of Transaction changes:

.depprod@@/main/solaris/227

: update plsql, precomp, sqlplus, ords, ldap

.labeledlog@@/main/264

: new log

.manifest@@/main/solaris/271

: new label

mesg@@/main/5

Add new qsmXX.msg translations for 8.1.4

Added file element "qsmd.msg".

Added file element "qsmf.msg".

Added file element "qsmja.msg".

qsmd.msg@@/main/0

qsmf.msg@@/main/0

qsmja.msg@@/main/0

joint@@/main/6

Add 8.1.4 RepAPIError.properties translation entries

Added file element "RepAPIErrorD.properties".

Added file element "RepAPIErrorF.properties".

Added file element "RepAPIErrorJA.properties".

RepAPIErrorD.properties@@/main/0

RepAPIErrorF.properties@@/main/0

RepAPIErrorJA.properties@@/main/0

=====



Short regress has 0 dif - run with use\_ism=false.

tk0irddl.suc	tkagrawt.suc	tkoolqyi.suc	tkprddls.suc	tkqrrords.suc
tk0iriot.suc	tkb2srg.suc	tkoommo2.suc	tkprdemo.suc	tkqrsecb.suc
tk0irmts.suc	tkdrpls1.suc	tkoqbrqr.suc	tkprdepl.suc	tkqrsels.suc
tkaqbdq2.suc	tkgrsecs.suc	tkp83c1.suc	tkprdep2.suc	tkqrtrcs.suc
tkaqbeq1.suc	tkhodbck.suc	tkpasr81.suc	tkprdep3.suc	tkqrwhes.suc
tkaqbeq2.suc	tkhomrg.suc	tkpasrg0.suc	tkprdep4.suc	tkqxeisr.suc
tkaqdqb1.suc	tkhoucmr.suc	tkpbd1.suc	tkprdep5.suc	tkrcrash.suc
tkaqdqb2.suc	tkigfsrt.suc	tkpmsrl.suc	tkprdep6.suc	tkrcrsha.suc
tkaqdqb3.suc	tkirenbs.suc	tkpmsrnl.suc	tkprexec.suc	tkrmlite.suc
tkaqdqrc.suc	tkirinds.suc	tkpopro.suc	tkprmisc.suc	tkrmliti.suc
tkaqmbdq.suc	tkoodcat.suc	tkpotta.suc	tkprsqlp.suc	tkrsrsubs.suc
tkaqmbei.suc	tkoodcta.suc	tkpqcafs.suc	tkprttime.suc	tktrclus.suc
tkaqmnav.suc	tkoodctn.suc	tkpqdups.suc	tkprtimm.suc	tktrmnp.suc
tkaqnsbl.suc	tkoodtcl.suc	tkpqgrps.suc	tkpuori.suc	tktrnaos.suc
tkaqnsb2.suc	tkoodtci.suc	tkpqjois.suc	tkqrcats.suc	tktrtabs.suc
tkaqnsb3.suc	tkoodtcm.suc	tkpqmain.suc	tkqrdats.suc	tktrvies.suc
tkaqnsb4.suc	tkoodtir.suc	tkpqords.suc	tkqrexps.suc	tkxabrch.suc
tkaqnsb5.suc	tkoodxu0.suc	tkpqgrgs.suc	tkqrgtps.suc	tkzrlso0.suc
tkaqoci2.suc	tkoolqyc.suc	tkpqwhrs.suc	tkqrjois.suc	
tkaqrawi.suc	tkoolqyd.suc	tkprbugs.suc	tkqrnuls.suc	

Long regress has been started.

Transaction: rjenkins\_bug-702786

kkdc.c@@/main/85

Merge From /vobs/rdbms/src/server/dict/dictlkup/kkdc.c@@/main/84

kkpoc.c@@/main/17

more stuff

kkpam.h@@/main/13

702786: make kkpamKRange return fragment numbers

kdic.c@@/main/131

Merge From /vobs/rdbms/src/server/ram/index/kdic.c@@/main/130

kkpam.c@@/main/19

702786: merge changes from andre

kkpam0.h@@/main/8

702786: merging in andre's changes

delexe.c@@/main/163

try again

kxcc.h@@/main/15

Merge From /vobs/rdbms/src/server/sqlang/if/kxcc.h@@/main/14

kxcc.c@@/main/23

Merge From /vobs/rdbms/src/server/sqlang/integ/kxcc.c@@/main/22

xtty.c@@/main/189

Merge From /vobs/rdbms/src/server/sqlang/typeconv/xtty.c@@/main/188

Transaction: thoang\_partobj\_bugs

atb.c@@/main/250

koke.h@@/main/28

Add fragno argument to kokeicd2m()

kkbl.c@@/main/38

██████████ kkbldcsi: setup lsinfo for varray stored as lob  
koke.c@@/main/45

██████████: Pass fragno to kokeicd2m()

kaf.c@@/main/78

██████████ Pass fragno to kokeicd2m()

updexe.c@@/main/231

██████████ Pass fragno to kokeicd2m

Out of Transaction changes:

.labellog@@/main/261

██████████ new log


.manifest@@/main/solaris/268

██████████ new label

.labellog@@/main/260

██████████ Correcting root directory entries for 980925 label.

=====



[REDACTED]

This label was compiled with -xprofile=use option.

Short regress has 0 dif - run with use\_ism=false.

tk0irddl.suc	tkagrawt.suc	tkoolqyi.suc	tkprddls.suc	tkqrords.suc
tk0iriot.suc	tkb2srg.suc	tkoommo2.suc	tkprdemo.suc	tkqrsecb.suc
tk0irmts.suc	tkdrpls1.suc	tkogbrqr.suc	tkprdepl.suc	tkqrsels.suc
tkaqbdq2.suc	tkgrsecs.suc	tkp83cl.suc	tkprdep2.suc	tkqrtres.suc
tkaqbeq1.suc	tkhodbck.suc	tkpasr81.suc	tkprdep3.suc	tkqrwhes.suc
tkaqbeq2.suc	tkhomrg.suc	tkpasrg0.suc	tkprdep4.suc	tkqxeisr.suc
tkaqdqb1.suc	tkhoucmr.suc	tkpbd1.suc	tkprdep5.suc	tkrcrash.suc
tkaqdqb2.suc	tkigfsrt.suc	tkpmsr1.suc	tkprdep6.suc	tkrcrsha.suc
tkaqdqba.suc	tkirenbs.suc	tkpmsrnl.suc	tkprexec.suc	tkrmlite.suc
tkaqdqrc.suc	tkirinds.suc	tkpopro.suc	tkprmisc.suc	tkrmliti.suc
tkaqmbdq.suc	tkoodcat.suc	tkpotta.suc	tkprsqlp.suc	tkrsrsubs.suc
tkaqmbei.suc	tkoodcta.suc	tkpqcafs.suc	tkprttime.suc	tktrcllus.suc
tkaqmnav.suc	tkoodctn.suc	tkpqdups.suc	tkprtimm.suc	tktrmnps.suc
tkaqnsb1.suc	tkoodtcl.suc	tkpqgrps.suc	tkpuori.suc	tktrnaos.suc
tkaqnsb2.suc	tkoodtci.suc	tkpqjois.suc	tkqrcats.suc	tktrtabs.suc
tkaqnsb3.suc	tkoodtcm.suc	tkpqmain.suc	tkqrdats.suc	tktrvies.suc
tkaqnsb4.suc	tkoodtir.suc	tkpqords.suc	tkqrexps.suc	tkxabrch.suc
tkaqnsb5.suc	tkoodxu0.suc	tkpqgrgs.suc	tkqrgrrs.suc	tkxafini.suc
tkaqoci2.suc	tkoolqyc.suc	tkpqwhrs.suc	tkqrjois.suc	tkxainit.suc
tkagrawi.suc	tkoolqyd.suc	tkprbugs.suc	tkqrnuls.suc	tkzrlso0.suc

Long regress will be started tomorrow evening.

[REDACTED]

[REDACTED]

=====

Transaction: ramkrish\_bugfix-varray

kkbl.c@@/main/30

[REDACTED]: kkblclsi: fix varray bug introduced as part of atbmov

Transaction: snutakki\_bug-511898\_5

qerix.c@@/main/128

[REDACTED]: Fix regression from merge of 511898

Transaction: syeung\_bug-702172\_1

kda.c@@/main/113

[REDACTED]

Transaction: mkrishna\_fix\_objview\_bugs

[REDACTED]

```

kxti.h@@/main/5
[REDACTED] add KXTDF_NTT_TRIGGER
kxti.c@@/main/14
[REDACTED]
kxto.c@@/main/22
[REDACTED]: fix bug 704081
kkdo.h@@/main/20
[REDACTED] make lint happy
kokv.c@@/main/20
[REDACTED] fix core dumps when invalid type is given
nsoqbc.c@@/main/53
[REDACTED] nsomrg: set up froljc for dependent tables
xty.c@@/main/180
[REDACTED]
cvw.c@@/main/105
[REDACTED] fix cvwosfor
delexe.c@@/main/155
[REDACTED] change kxtifrw calling

```

Transaction: amozes\_lrg-25369

```

dbsdrv.c@@/main/162
[REDACTED] check if database is open before calling ksxshut

```

Transaction: sdas\_bug-703264

```

kau.c@@/main/90
[REDACTED] partitioned iot: fix bug 703264
kdu.c@@/main/115
[REDACTED] kdudcp(): replace kduuskflag with kduusdflag
kau.h@@/main/36
[REDACTED] name/interface chg: kaubokey->kauibokey, kaubnikey->kauibnkey
delexe.c@@/main/156
* [REDACTED] iot: set kduikauc in delini()
updexe.c@@/main/221
[REDACTED] iot: remove kdkreb call, kauibokey did its job
qerfu.c@@/main/23
[REDACTED] iot: set kduikauc in qerfuInitFrame()

```

Transaction: bnnguyen\_bug-678044

```

psdicd.c@@/main/174
[REDACTED] bug678044

```

Transaction: svedala\_create\_part\_demo

```

demo@@/main/19
[REDACTED] Added file element "cdemopl.b.c".
[REDACTED] Added file element "cdemopl.b.sql".
[REDACTED] Added file element "cdemopl.b.h".
[REDACTED] Added file element "cdemopl.b.dat".
[REDACTED] Removed file element "cdemopl.b.h".
[REDACTED] Removed file element "cdemopl.b.sql".
[REDACTED] Removed file element "cdemopl.b.dat".
cdemopl.b.c@@/main/1

```

Transaction: amganeshtprundo-noret

ktpr.c@@/main/13

[REDACTED]: ktprundo doesnt return

Transaction: thoang\_merge\_696471

kgl.h@@/main/205

[REDACTED]: Removed kglcldp

kgl2.c@@/main/109

[REDACTED]: Removed kglcldp

kkm.c@@/main/380

[REDACTED]:

kkpod.c@@/main/27

[REDACTED]:

atb.c@@/main/228

[REDACTED]:

cvw.c@@/main/106

[REDACTED]:

dix.c@@/main/52

[REDACTED]:

qkadv.c@@/main/209

[REDACTED]:

Transaction: nmacnaug\_merge\_9

kcbz.h@@/main/46

[REDACTED]: do not use kcbbhba field directly

kcl.c@@/main/113

[REDACTED]: rename structure element to avoid conflict

kcl0.h@@/main/25

[REDACTED]: rename structure element to avoid conflict

Transaction: st\_plsql\_smkrishn\_no\_rebind

kkxwtp.c@@/main/192

[REDACTED]: Merge From /vobs/rdbms/src/server/progint/opi/kkxwtp.c@@/main/188

Transaction: nmacnaug\_fix\_24

kcl.h@@/main/53

[REDACTED]: add exclusive hint

kcbz.c@@/main/119

[REDACTED]: use exclusive hint

kcl2.h@@/main/34

[REDACTED]: send class correctly to bsp

kcl.c@@/main/111

[REDACTED]: send class correctly to bsp

Transaction: lkaplan\_change\_drop

FDSAccess.java@@/main/5

[REDACTED]  
 FDSObject.java@@/main/5  
 [REDACTED]:

Transaction: nmacnaug\_lrg-25129

kcl2.h@@/main/35  
 [REDACTED]: remove queued upconvert  
 kcl.c@@/main/112  
 [REDACTED]: remove queued upconvert  
 kcl0.h@@/main/24  
 [REDACTED]: remove queued upconvert

Transaction: jklein\_bug-708701

kdd.c@@/main/83  
 [REDACTED]: bug 708701 - maintain col\_list between kdudnk calls.

Transaction: st\_plsql\_smkrishn\_backout\_rdbms

kkxwtp.c@@/main/194  
 [REDACTED]: Temporarily back out no rebind

Transaction: mcusson\_logmnr\_nfy

krv.h@@/main/11  
 [REDACTED]: Fix short regress problem caused by krvnfy()  
 krivr.c@@/main/6  
 [REDACTED]: Fix short regress problem caused by krvnfy()

Out of Transaction changes:

.depprod@@/main/solaris/184  
 [REDACTED] update nlsrtl, network, spatial, slax, oracore, /vobs/oracle & precomp  
 .labellog@@/main/212  
 [REDACTED] new log  
 .manifest@@/main/solaris/219  
 [REDACTED]: new label  
 dbfmig.c@@/main/osds/unix/solaris/1  
 [REDACTED]:  
 kkxwtp.c@@/main/193  
 [REDACTED]: Back out psdscp, psdrpc until pfrrun.c is changed

=====

Short regress has 0 dif - run with use\_ism=false.

tk0irddl.suc	tkaqrawt.suc	tkoolqyi.suc	tkprddls.suc	tkqrrds.suc
tk0iriot.suc	tkb2srg.suc	tkoommo2.suc	tkprdemo.suc	tkqrsecb.suc
tk0irmts.suc	tkdrpls1.suc	tkoqbrqr.suc	tkprdepl.suc	tkqrsels.suc
tkaqbdq2.suc	tkgrsecs.suc	tkp83cl.suc	tkprdep2.suc	tkqrtres.suc
tkaqbeq1.suc	tkhodbck.suc	tkpasr81.suc	tkprdep3.suc	tkqrwhes.suc
tkaqbeq2.suc	tkhomrg.suc	tkpasrg0.suc	tkprdep4.suc	tkqxeisr.suc
tkaqdqb1.suc	tkhoucmr.suc	tkpbd1.suc	tkprdep5.suc	tkrcrash.suc
tkaqdqb2.suc	tkigfsrt.suc	tkpmsrl.suc	tkprdep6.suc	tkrcrsha.suc
tkaqdqba.suc	tkirenbs.suc	tkpmsrnl.suc	tkprexec.suc	tkrmlite.suc
tkaqdqrc.suc	tkirinds.suc	tkpopro.suc	tkprmisc.suc	tkrmliti.suc
tkaqmbdq.suc	tkoodcat.suc	tkpotta.suc	tkprsqlp.suc	tkrsrsubs.suc
tkaqmbei.suc	tkoodcta.suc	tkpqcafs.suc	tkprttime.suc	tktrclus.suc
tkaqmnv.suc	tkoodctn.suc	tkpqdups.suc	tkprtimm.suc	tktrmmps.suc
tkaqnsb1.suc	tkoodtcl.suc	tkpqgrps.suc	tkpuori.suc	tktrnaos.suc
tkaqnsb2.suc	tkoodtci.suc	tkpqjois.suc	tkqrcats.suc	tktrtabs.suc
tkaqnsb3.suc	tkoodtcm.suc	tkpqmain.suc	tkqrdats.suc	tktrvies.suc
tkaqnsb4.suc	tkoodtir.suc	tkpqords.suc	tkqrexps.suc	tkxabrch.suc
tkaqnsb5.suc	tkoodxu0.suc	tkpqgrgs.suc	tkqgrgps.suc	tkxafini.suc
tkaqoci2.suc	tkoolqyc.suc	tkpqwhrs.suc	tkqrjois.suc	tkxainit.suc
tkaqrawi.suc	tkoolqyd.suc	tkprbugs.suc	tkqrnuls.suc	tkzrlso0.suc

Long regress will not be started.

Transaction: smuralid\_bugs2

kokq.c@@/main/14

██████████: kokqtpo, kokqbpo: propagate OPNOREF

koks.c@@/main/52

██████████: koksrcqb: follow qbcnxt only if NOT(is\_first)

Transaction: liwong\_add\_error\_23473

e19400.msg@@/main/60

██████████: Add 23473

Transaction: dmwong\_approlemsg

e24280.msg@@/main/72

██████████: add application role err msg

Transaction: bdagevil\_ppwj\_no\_hj\_buffout

qerhj.h@@/main/20

██████████: change flag BUFFER\_QKNJO to NO\_BUFFER\_QKNJO

qkna.h@@/main/14

██████████: change flag BUFFER\_QKNJO to NO\_BUFFER\_QKNJO

qerhj.c@@/main/46

██████████: buffer output if BUFFER\_QKNJO is set

qkadrv.c@@/main/205

██████████: qkadrv2(): add phase to set HJ output buff requirement

qkajoi.c@@/main/133

[REDACTED]: remove every reference to qkanbf()

Transaction: masubram\_masubram\_null\_ref1\_1

c0800050.sql@@/main/3

d0800050.sql@@/main/30

sql.bsqa@@/main/202

kkdl.c@@/main/360

[REDACTED]: Merge From /vobs/rdbms/src/server/dict/dictlkup/kkdl.c@@/main/356

kkz.h@@/main/46

kkzd.h@@/main/12

kkzf.h@@/main/12

kkzi.h@@/main/5

kkzu.h@@/main/10

kkzv.h@@/main/5

kkzd.c@@/main/19

kkzf.c@@/main/26

kkzi.c@@/main/12

kkzu.c@@/main/12

kkzv.c@@/main/15

prvtsnap.sql@@/main/27

knt.c@@/main/13

[REDACTED]: Merge From /vobs/rdbms/src/server/repl/trigger/knt.c@@/main/12

qsmqutl.c@@/main/5

kkz.c@@/main/126

Transaction: bgoyal\_bug-692581

e29250.msg@@/main/92

[REDACTED] add 30555

Transaction: qyu\_bug-428835

catalog.sql@@/main/302

Transaction: vkarra\_tpcd\_changes

kdi.h@@/main/73



[REDACTED]: Merge From /vobs/rdbms/src/server/ram/if/kdi.h@@/main/72  
 kdis.h@@/main/17  
 [REDACTED]: add variables for leaf and branch splits  
 kdi.c@@/main/168  
 [REDACTED]  
 kdis.c@@/main/52  
 [REDACTED]: Merge From /vobs/rdbms/src/server/ram/index/kdis.c@@/main/51

**Transaction: akruglik\_bug-696737**

e12700.msg@@/main/53  
 [REDACTED]: add message 14176  
 ktbl.c@@/main/29  
 [REDACTED]: fix for bug 696737: if performing PITR, allow STORAGE clause when parsing def  
 prsc.c@@/main/387  
 [REDACTED]: fix for bug 696737: do not restrict attributes which may be specified for a H

**Transaction: sichandr\_optimize\_kokbint**

kokb.c@@/main/16  
 [REDACTED]  
 kprb.h@@/main/14  
 [REDACTED]: add kprbuu\* (callback bind) support for ADTs

**Transaction: aksrivas\_bug-691448**

kge.h@@/main/41  
 [REDACTED]: fix bug 691448, add KGENMFASSERT macro and kgeanmfe proto  
 kge.c@@/main/59  
 [REDACTED]: fix bug 691448, add named fatal assert routine  
 kjga.h@@/main/7  
 [REDACTED]: fix bug 691448, add named fatal assert macros

**Transaction: hasun\_handle\_grpby\_cols\_correctly\_for\_mavs**

kkz.c@@/main/127  
 [REDACTED]: Use a unique index for MAVs instead of PK constraint  
 kkzg.c@@/main/28  
 [REDACTED]: Modify kkzgindcb() to generate unique indexes for MAVs

**Transaction: ramkrish\_ramkrish\_iotlob\_atbmov**

kkm.c@@/main/379  
 [REDACTED]  
 kkpo.c@@/main/40  
 [REDACTED]  
 atb.c@@/main/227  
 [REDACTED]  
 kkb.c@@/main/82  
 [REDACTED]  
 kokl2.c@@/main/29  
 [REDACTED]  
 kditc.h@@/main/10  
 [REDACTED]  
 kdic.c@@/main/113

[REDACTED]  
gerli.c@@/main/73

[REDACTED]  
prsdef.h@@/main/35

[REDACTED]  
ctc.c@@/main/221

[REDACTED]  
kkbl.c@@/main/28

[REDACTED]  
prsc.c@@/main/386

Transaction: mkamath\_errmsg

e24280.msg@@/main/73

[REDACTED] Adding error message 25261

Transaction: sbedarka\_bug-664195\_1

catalog.sql@@/main/301

Transaction: sbedarka\_bug-683833\_1

kkdc.c@@/main/81

Transaction: sbedarka\_bug-475585\_1

kvpf.c@@/main/11

Transaction: lkaplan\_sndcmp\_delete

ColumnDescriptor.java@@/main/6

Transaction: clei\_bug-696853\_1

kzra.c@@/main/8

Transaction: lbarton\_bug-654891

exuevw.c@@/main/25

[REDACTED] Use explicit array index in offsetof

Transaction: dalpern\_snapshot\_purity\_adjustments\_errmsg

e29250.msg@@/main/91

[REDACTED] base purity decisions on DETERMINISTIC

[REDACTED]

Transaction: gtaracha\_bug-566533

opndef.h@@/main/124

██████████ Removing OPTHTOR and OPTATOH

odfdef.c@@/main/82

██████████: Fixing bug 566533

koke.h@@/main/25

██████████ (566533): Removing kokeehtr, kokeihtr

koke.c@@/main/39

██████████ (566533): Removing kokeehtr, kokeihtr and OPTATOH from kokeithx

kkzp.c@@/main/24

██████████ Removing OPTHTOR and OPTATOH

Transaction: nramani\_ldap\_errors

e24280.msg@@/main/74

██████████ adding ldap integration errors

Out of Transaction changes:

.labellog@@/main/209

██████████ new log


.manifest@@/main/solaris/216

██████████ new label

ctc.c@@/main/222

██████████ fix comp err

=====



Short regress has 0 dif - run with use\_ism=false.

tk0irddl.suc	tkagrawt.suc	tkoolqyi.suc	tkprddls.suc	tkqords.suc
tk0iriot.suc	tkb2srg.suc	tkoommo2.suc	tkprdemo.suc	tkqrsech.suc
tk0irmts.suc	tkdrpls1.suc	tkogbrqr.suc	tkprdepl.suc	tkqrsels.suc
tkaqbdq2.suc	tkgrsecs.suc	tkp83cl.suc	tkprdep2.suc	tkqrtres.suc
tkaqbeq1.suc	tkhodbck.suc	tkpasr81.suc	tkprdep3.suc	tkqrwhes.suc
tkaqbeq2.suc	tkhomrg.suc	tkpasrg0.suc	tkprdep4.suc	tkqxeisr.suc
tkaqdqb1.suc	tkhoucmr.suc	tkpbd1.suc	tkprdep5.suc	tkrcrash.suc
tkaqdqb2.suc	tkigfsrt.suc	tkpmsrl.suc	tkprdep6.suc	tkrcrsha.suc
tkaqdqba.suc	tkirenbs.suc	tkpmsrnl.suc	tkprexec.suc	tkrmlite.suc
tkaqdqrc.suc	tkirinds.suc	tkpopro.suc	tkprmisc.suc	tkrmliti.suc
tkaqmbdq.suc	tkoodcat.suc	tkpotta.suc	tkprsqlp.suc	tkrsrsubs.suc
tkaqmbei.suc	tkoodcta.suc	tkpqcafs.suc	tkprttime.suc	tktrclus.suc
tkaqmnav.suc	tkoodctn.suc	tkpqdups.suc	tkprtimm.suc	tktrmnps.suc
tkaqnsb1.suc	tkoodtcl.suc	tkpqgrps.suc	tkpuori.suc	tktrnaos.suc
tkaqnsb2.suc	tkoodtci.suc	tkpqjois.suc	tkqrcats.suc	tktrtabs.suc
tkaqnsb3.suc	tkoodtcm.suc	tkpqmain.suc	tkqrdats.suc	tktrvies.suc
tkaqnsb4.suc	tkoodtir.suc	tkpqords.suc	tkqrexps.suc	tkxabrch.suc
tkaqnsb5.suc	tkoodxu0.suc	tkpqgrgs.suc	tkqgrgps.suc	tkzrlso0.suc
tkaqoci2.suc	tkoolqyc.suc	tkpqwhrs.suc	tkqrjois.suc	
tkaqrawi.suc	tkoolqyd.suc	tkprbugs.suc	tkqrnuls.suc	

Long regress has been started.

Transaction: svedala\_fix\_cdemosyev

cdemosyev.c@@/main/st\_rdbms\_8.1.4/1

Transaction: gbhatia\_define\_net\_use\_ldap\_flag

s\_rdbms.mk@@/main/osds/unix/solaris/st\_rdbms\_8.1.4/1  
Define NET\_USE\_LDAP flag

Transaction: mtakashi\_merge\_jox\_981022

jox.c@@/main/st\_rdbms\_8.1.4/8  
merge from cvs


Transaction: skmishra\_fix-dif-4

opiodr.c@@/main/st\_rdbms\_8.1.4/4

Out of Transaction changes:

.depprod@@/main/solaris/st\_rdbms\_8.1.4/15  
update javavm  
labellog@@/main/st\_rdbms\_8.1.4/15

[REDACTED] new log  
manifest@@/main/solaris/st\_rdbms\_8.1.4/16  
[REDACTED]: new label  
rdbmsgaenv@@/main/st\_rdbms\_8.1.4/2  
[REDACTED]: Added entries to T\_SOURCE, T\_COM, etc. to stay in sync with .ndeprodenv  
=====



Short regress has 0 dif - run with use\_ism=false.

tk0irddl.suc	tkb2srg.suc	tkoqbrqr.suc	tkprdemo.suc	tkqrsels.suc
tk0iriot.suc	tkdrpls1.suc	tkp83cl.suc	tkprdep1.suc	tkqrtres.suc
tk0irmts.suc	tkgrsecs.suc	tkpasc81.suc	tkprdep2.suc	tkqrwhes.suc
tkaqbdq2.suc	tkhodbck.suc	tkpash81.suc	tkprdep3.suc	tkqxeisr.suc
tkaqbeq1.suc	tkhosrg.suc	tkpasrg0.suc	tkprdep4.suc	tkrcrash.suc
tkaqbeq2.suc	tkhoucsr.suc	tkpbdl.suc	tkprdep5.suc	tkrcrsha.suc
tkaqdqb1.suc	tkigfsrt.suc	tkpdplipo.suc	tkprdep6.suc	tkrmlite.suc
tkaqdqb2.suc	tkirenbs.suc	tkpmsrl.suc	tkprexec.suc	tkrmliti.suc
tkaqdqba.suc	tkirinds.suc	tkpmsrnl.suc	tkprmisc.suc	tkrsrsubs.suc
tkaqdqrc.suc	tkoodcat.suc	tkpopro.suc	tkprsqlp.suc	tktrclus.suc
tkaqmbdq.suc	tkoodcta.suc	tkpotta.suc	tkprttime.suc	tktrmnps.suc
tkaqmbei.suc	tkoodctn.suc	tkpqcafs.suc	tkprtimm.suc	tktrnaos.suc
tkaqmnav.suc	tkoodtcl.suc	tkpqdups.suc	tkpuori.suc	tktrtabs.suc
tkaqnsb1.suc	tkoodtci.suc	tkpqgrps.suc	tkqrcats.suc	tktrvies.suc
tkaqnsb2.suc	tkoodtcm.suc	tkpqjois.suc	tkqrdates.suc	tkxabrch.suc
tkaqnsb3.suc	tkoodtir.suc	tkpqmain.suc	tkqrexps.suc	tkzrlsd0.suc
tkaqnsb4.suc	tkoodxu0.suc	tkpqords.suc	tkqrgtps.suc	tkzrlso0.suc
tkaqnsb5.suc	tkoolqyc.suc	tkpqgrgs.suc	tkqrjois.suc	
tkaqoci2.suc	tkoolqyd.suc	tkpqwhrs.suc	tkqrnuils.suc	
tkaqrawi.suc	tkoolqyi.suc	tkprbugs.suc	tkqrords.suc	
tkaqrawt.suc	tkoommo2.suc	tkprddls.suc	tkqrseeb.suc	

Long regress has been started.

Transaction: nvishnub\_bug-786151

exuept.c@@/main/14

Transaction: gtarora\_kollasg\_OCIOBJECTSetAttr

orid.c@@/main/8  
lint

Transaction: anithrak\_fix\_state\_obj\_dump

kcb.h@@/main/167  
Add new where for kcbmb1 for call from kcbzps  
kcbz.c@@/main/149

Transaction: whe\_fix\_lrg31076

orl.c@@/main/18

[REDACTED]: lrg31076: typo in OCIOpaqueCtxGetHandles

Transaction: jfeenan\_merger

qsmqutl.c@@/main/13

[REDACTED]: reduce invalidation and lock window

Transaction: fge\_bug-705269

qkadv.c@@/main/256

[REDACTED] #(705269): qkadv projects rwo for bitmap dn if ROWNUM

qkna.c@@/main/25

[REDACTED] #(705269): qknpAllocate: new rwo if bitmap dn underneath

Transaction: gbhatia\_ano\_radius\_encrypt\_passwd

kpuzln.c@@/main/31

[REDACTED]: ANO Radius Fix

upilog.c@@/main/63

[REDACTED]: ANO Radius Fix

kzia.c@@/main/14

[REDACTED]: ANO Radius Fix

Out of Transaction changes:

.depprod@@/main/solaris/293

[REDACTED]: update plsqli, precomp, sqlplus, ordts, oemagent

.labellog@@/main/334

[REDACTED]: new log

.manifest@@/main/solaris/341

[REDACTED]: new label

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